# THE AVENDT GROUP, INC.

**ENGINEERS & SCIENTISTS** 

Mr. James J. Hahnenberg (SR-6J) Remedial Project Manager U.S. EPA Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590



February 10, 2015

Re: Monthly Progress Report, January 2015

L.A. Darling Former Facility, NBFF OU2

Dear Mr. Hahnenberg,

Pursuant to Section XI. Order, paragraph 42 Progress Reports of the Administrative Order For Remedial Design and Remedial Action effective July 3, 2011 for the above referenced facility; this is the Monthly Progress Report for work completed during January 2015.

#### ACTIVITIES COMPLETED AND ANY PROBLEMS ENCOUNTERED -

- 1. Remedial Action Phase 1, AS/SVE Installation Operation Operated a reported 31 days in the month of January 2015.
- 2. Project Schedule The entire AS/SVE system is scheduled to be operational until May 2015 (total of 2 years) or until instructed by regulatory agencies.
- 3. AS/SVE Monthly O&M Summary Report The January 2015 Monthly O&M Summary Report for the AS/SVE System dated February 10, 2015 is attached.

#### VALIDATED DATA RECEIVED AND NOT PREVIOUSLY REPORTED-

- 1. Lab Data- Soil vapor sampling data to characterize the influent gas stream from the site extraction wells was obtained January 17, 2015. The monitored influent gas TCE concentration has continued to decrease as a result of the AS/SVE treatment, i.e. July 2013 30 mg/m<sup>3</sup> compared to January 2015 2.7 mg/m<sup>3</sup>.
- 2. Groundwater Sampling- Groundwater sampling of the on-site wells is tentatively scheduled for May 2015. Specific dates will provided to the regulatory agencies in April.

#### RD/RA WORK PLANNED FOR NEXT 90 DAYS -

- 1. On-Site Inspections- Maintain liaison with RPM, MDEQ and OneSullivan Representative for scheduling of any on-site inspections.
- 2. AS/SVE System Operation Improvements- No changes are proposed for the AS/SVE system at the site.

#### ANTICIPATED PROBLEMS AND PLANNED RESOLUTIONS - None.

If you should have any questions or comments regarding this progress report, please do not hesitate to contact me at your convenience (312) 543-6257.

Respectfully,

The AVENDT GROUP, Inc.

Raymond J. Avendt Ph.D. PE

**Project Coordinator** 

Cc: B. Mead-O'Brien, MDEQ; S. Franzetti, NF LLP; T. Maley, OneSullivan, via email

217 MADISON AVENUE, SE • GRAND RAPIDS, MI • 49503 (616) 233-0535 • CELL: (312) 543-6257

February 10, 2015

Dr. Ray Avendt, Ph.D., P.E. 217 Madison Avenue SE Grand Rapids, Michigan 49503

RE: AS/SVE Monthly O&M Summary Report - January

Former LAD Store Fixtures, Bronson, MI

Dear Dr. Avendt:

E&G Drilling & Environmental Contracting Services (E&G) is submitting this summary report for the January 2015 operation, maintenance and monitoring (O&M) of the air sparge (AS) and soil vapor extraction (SVE) remediation system installed at the former LA Darling Store Fixtures facility located at 616 N. Matteson Street, Bronson, Michigan, Startup, shakedown and operation of the system commenced on May 7, 2013. The AS system includes 9 sparge wells screened in the shallow zone and 9 sparge wells screened in the intermediate zone. Sparging alternates from the shallow wells to the intermediate wells on 10 minute cycles. The flow to each AS well is individually controlled and metered. The SVE system includes 9 SVE wells and the flow from each SVE well is individually controlled and metered and the total combined discharge flow is metered. The discharge from the SVE system is currently exempt from air permit under Rule 290 and, therefore the vapors captured by the SVE system are directly discharged unobstructed vertically upward. Water and condensate that collect in the SVE conduits are collected in a knock-out (KO) tank and intermittently pumped through a flow meter, in-line particulate filter and liquid phase GAC vessel prior to onsite discharge. The KO water discharge from the SVE system is exempt under Groundwater Discharge Rule 210. During the May 7 and 8 startup the SVE Effluent, Intermediate stage and Influent gas streams were monitored with a photo-ionization detection (PID) unit, and a sample of the Influent was also collected and delivered to an analytical laboratory for VOC analysis.

On January 5 E&G performed an unscheduled site visit to inspect the alarm auto-dialer system, because it was non-responsive to incoming phone calls made to check the status of the AS/SVE system. It was determined that the cellular phone has lost connection with the Xlink interface module. E&G re-established connection and resumed normal operation. While on-site, E&G performed a brief check of the AS/SVE system and found it to be in normal operation. E&G performed a monthly site visit and O&M event on January 17. The O&M event included inspecting, monitoring, recording, adjusting, etc.; lubricant levels; leaks; AS & SVE flow rates; monitored conditions at the SVE flue gas effluent, intermediate and influent stages for each of the sparge zones; conditions at the 4 pressure probes via slack tube manometer; KO water and discharge; operation of the remote monitoring system auto-dialer; and, the general site condition.

The system operated for 31 days during the reporting period. As of January 31, 2015, approximately 226 lbs of VOC and 223 lbs of TCE, respectively, have been recovered by the SVE system.

Thank you for the opportunity to provide our environmental services to you. If you have any questions regarding this report, please contact me at 231-499-5479 or email at dave@eandgdrilling.com.

Sincerely,

**E&G DRILLING & ENVIRONMENTAL CONTRACTING SERVICES** 

Dave Warner

Project Manager/Engineer

Ce:

Chris Bade, ASI

**Enclosures** 

## Documentation of Monthly Discharge for Rule 290 Exemption from PTI

#### (Pursuant to R 201a of the Air Pollution Control Rules)

#### Former LAD Facility

### 606 N. Matteson St., Bronson, MI

January 2015

Sample(s) collected on:

1/17/15 (Summary table attached).

Compound	ITSL (µg/m³)	IRSL (µg/m³)	Controlled/ Uncontrolled Discharge (C/UC)	[A] Average Flow (cfm)	[B]  *Average  Concentration  (mg/m³)	[C]  (2) Average Daily Recovery/ Discharge (lb./day)	[D]  (3) Days Operating (days)	[E]  (4) Pounds Recovered Discharged (lb./month)
VOC	NA	NA	С			#400		
VOC	NA	NA	UC	190	2.7	0.046	31	1.4
TCE	2	0.2	С					
TCE	2	0.2	UC	190	2.7	0.046	31	1.4
						Atmosphere (lb./mon atmosphere (lb./mont		1.4 1.4
					ourly VOC Emission			0.00

Summary	of VOC	& TCE	<b>Emissions:</b>

Year 2015 Total Pounds VOC Discharged (lb.):	1.4
Overall Total Pounds VOC Discharged to Date (lb.):	170.0
Year 2015 Total Pounds TCE Discharged (lb.):	1.4
Overall Total Pounds TCE Discharged to Date (lb.):	167.0

NA - Not applicable.

ITSL - Initial Threshold Screening Level

IRSL - Initial Risk Screening Level

<sup>\*</sup> Concentrations less than the method detection limits are assumed to be zero for use in the equations.

<sup>(1)</sup> Total uncontrolled discharge of VOC & TCE not to exceed 1,000 #/month & 20 #/month, respectively.

<sup>(2)</sup> scfm x mg/m<sup>3</sup> x 0.00008986 = lb./day (or: [A] x [B] x 0.00008986 = [C])

<sup>(3)</sup> System operated for 31 days.

<sup>(4)</sup> lb./day x days/month operating = lb./month (or:  $[C] \times [D] = [E]$ )

# Summary of Vapor Flow Rates and Concentrations - January 2015 Soil Vapor Extraction System Former LAD Facility, NBFF OU2 606 N. Matteson St., Bronson, MI

Date	Flow Rate (scfm)	UC-VOC (mg/m³)	C-VOC (mg/m <sup>3</sup> )	UC-TCE (mg/m³)	C-TCE (mg/m <sup>3</sup> )
1	190	2.7		2.7	
2	190	2.7		2.7	,
3	190	2.7		2.7	
4	190	2.7		2.7	
5	190	2.7		2.7	
6	190	2,7		2.7	
7	190	2.7		2.7	
8	190	2.7		2.7	
9	190	2.7		2.7	-
10	190	2.7		2.7	
11	190	2.7		2.7	
12	190	2.7		2.7	
13	190	2.7	45.00	2.7	
14	190	2.7		2.7	
15	190	2.7		2.7	
16	190	2.7		2.7	
17	190	2.7	1	2.7	
18	190	2.7		2.7	
19	190	2.7		2.7	
20	190	2.7		2.7	
21	190	2.7		2.7	
22	190	2.7	7. 11.	2.7	
23	190	2.7		2.7	
24	190	2.7		2.7	
25	190	2.7		2.7	
26	190	2.7	1-1-7	2.7	
27	190	2.7		2.7	
28	190	2.7		2.7	
29	190	2.7		2.7	
30	190	2.7		2.7	
31	190	2.7		2.7	
otals: .verage *:	5890 190	84 2.7		84 2.7	

# FORMER LA DARLING - BRONSON, MICHIGAN

Electric Meter Reading: 59/80 (Kw-Hr)  SVE SYSTEM: ON 20580 90 SENSAPHONE: ON DAYS SINCE LAST VISIT:  ANY FAULT LIGHT(S) ON?: YES / NO Vacuum Status Light?: ON/OW / OUT  IF YES, WHICH LABEL(S)?:  FAULT LITES TEST: OK / REPAIR Process Area Temp: 70 Degree F  FLOWRATE: (SCFM)	echnician:	DL	)			Weather:	PO	Sur	- ~ 6	soul
SENSAPHONE: ON DAYS SINCE LAST VISIT:  OFF  OURS METER READING: ON 2 9580 90 SENSAPHONE: ON DAYS SINCE LAST VISIT:  Vacuum Status Light?: ONIOW / OUT  FYES, WHICH LABEL(S)?:  AULT LITES TEST: OK / REPAIR  Process Area Temp: Degree F  SLOWRATE: (SCFM)  ID: (SCFM)  (SCFM)  (Inter)  (Inter)  OFF  OUT  OUT  OUT  OUT  OUT  OUT  OUT	ate;	1-1-	7-20	15		Temp:	41	>		Degree F
FYES, WHICH LABEL(S)?:  AULT LITES TEST: OK / REPAIR  Process Area Temp: 70 Degree F  AULT LITES TEST: OK / REPAIR  AULT LITES TEST: OK / REPAIR	/E SYSTEM:	/	9180 0N 22	) §80	^			Maria Caralla	OFF	
AULT LITES TEST: OK / REPAIR  Process Area Temp: 70 Degree F  LOWRATE: (SCFM) ID: (SCFM) ID: (SCFM) ACUUM: (InHg)  ACUUM: (InHg)  ILIMER LOOP VALVE	IY FAULT LIGHT	(S) ON?:	YES / C	100		Vacuum St	atus Light?		ONIOR I	OUT
LOWRATE: (SCFM) (ID: (SCFM) (ID: (SPM) ACUUM: (InHg)  ACUUM: (InHg	YES, WHICH LAI	BEL(S)?:						==		
ACUMRATE: (SCFM)	LULT LITES TEST	: OK / F	REPAIR			Process Ar	ea Temp:_	10	_Degree F	
(SCFM)  (ID: (Cpm) (ACUM: (InHg)  2		1 ,	2	3	4	5	6	7	8	9
ACUMN: (InHg)  2	(SCFM) D:	18	14	38	14	22	16	28	14	30
Pre-SVE Blower Vacuum: 4 (in, Hg) Pre-HX GAS Temp.: 12 7 Degrected Combined Flow: 9 (SCFM) KO Tank Liquid Level: 9 (Inch CO Tank Transfer Pump: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallier ELEMENT CHANGEOUT?: YES NO?) Any Leaks? YES NO? (Record psi) (	ACUUM:	2	1.5	0	3.5	1.5	3.5	٥		Z
Tre-SVE Blower Vacuum: 4 (in. Hg) Pre-HX GAS Temp.: 12 7 Degrected Combined Flow: 9 (SCFM) KO Tank Liquid Level: 9 (Inch CO Tank Transfer Pump: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank Flowmeter: 0262 218 (Gallie Combined Flow: 12 Temps: ON OFF 2 KO Tank T: (Gallie Combined Flow: 12 Temps: ON OFF 2	I MER LOOP VAL	VE! E	OPEN	CLOSET	N N	DILLITION	AIR VALVE	. 7%	OPEN I	CLOSE
total Combined Flow: 190 (SCFM) KO Tank Liquid Level: (Inches Co Tank Transfer Pump: ON OFF?) KO Tank Flowmeter: 0262218 (Galle Co Tank Transfer Pump: ON OFF?) KO Tank Flowmeter: 0262218 (Galle Co Tank Transfer Pump: ON OFF?) Any Leaks? YES NO?  Tre-HX Pressure: (Record psi)  VE VGAC PRESSURE READINGS: (psi) VGAC TANK 1: (lead / lag?) (lead / lag?)  VE PID MEASUREMENTS: (ppm) + Qualitative Olfactory Check (Odor? If yes, describe)  PROCESS ROOM: (Popm) + Qualitative Olfactory Check (Odor? If yes, describe)  INFLUENT: (Shallow) 4-0 (Deep) 3.1 most occurrence of the process of the proces			00000	CLOSE	1	DIEGITION	VIII AVEAE	17	7	COSE
KO Tank Transfer Pump: ON OFF 2  KO Tank Flowmeter: O362 218 (Galle Control of the Control of th	e-SVE Blower Va	cuum:	7	(in. Hg)		Pre-HX GA	S Temp.:	10	(	Degree F
KO Tank Transfer Pump: ON OFF 2  KO Tank Flowmeter: O362 218 (Galle of Little ELEMENT CHANGEOUT?: YES NO?)  Any Leaks? YES NO?  Any Leaks? YES NO?  Any Leaks? YES NO?  (Record psi)  VE VGAC TANK 1: VGAC TANK 2: (lead / lag?)  (Pead / lag?)  VE PID MEASUREMENTS: (ppm) + Qualitative Olfactory Check (Odor? If yes, describe)  PROCESS ROOM: O 10 000 EFFLUENT: 4 0 1000 000 INTERMEDIATE/MIDFLUENT: INFLUENT: (Shallow) 4-0 (Deep) 3.1 000 000 INTERMEDIATE/MIDFLUENT: YES / NO?  EFFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?	otal Combined Flo	w: 19	0	(SCFM)		KO Tank L	iquid Level:	C	<u> </u>	(Inches)
PROCESS ROOM: O O O O O O O O O O O O O O O O O O	) Took Travefor 5	umm. ON /	(GEE 2)						218	(Cellene)
Pre-HX Pressure: Or S (Record psi)  SVE VGAC PRESSURE READINGS: (psi) VGAC TANK 1: VGAC TANK 2: (lead / lag?)  SVE PID MEASUREMENTS: (ppm) + Qualitative Olfactory Check (Odor? If yes, describe)  PROCESS ROOM: O Ab O BEFFLUENT: 4. O MOOD OUL  INTERMEDIATE/MIDFLUENT: INFLUENT: (Shallow) 4-O (Deep) 3. I POS  SAS SAMPLES (1/2 Liter Tedlar Bags, Only 72-Hours Hold Time, 8260+ DEQ LIST): VALVES CLOSE  EFFLUENT: YES / 100? 1 OR 2 BAGS ? (ES) NO ?  INTERMEDIATE/MIDFLUENT: YES / 100?  INFLUENT: YES / 100?  ANY VISIBLE EMISSIONS FROM STACK?: YES / 100?  SVE CARBON CHANGEOUT?: YES / 100?  VGAC TANK: 1 OR 2 ?					_	NO Talik I	iownieter.	<u>Jaw.</u>	, , ,	(Gallons)
SVE VGAC PRESSURE READINGS: (psi) VGAC TANK 1: VGAC TANK 2: (lead / lag?)  SVE PID MEASUREMENTS: (ppm) + Qualitative Olfactory Check (Odor? If yes, describe)  PROCESS ROOM: O Ab Odo EFFLUENT: 4. O MOOD Odo INTERMEDIATE/MIDFLUENT: INFLUENT: (Shallow) 4-O (Deep) 3. 1 POR 2 SAS SAMPLES (1/2 Liter Tedlar Bags, Only 72-Hours Hold Time, 8260+ DEQ LIST): VALVES CLOSE  EFFLUENT: YES / 100? 1 OR 2 BAGS ? YES / NO? INTERMEDIATE/MIDFLUENT: YES / 100? 1 OR 2 BAGS ? YES / NO? INFLUENT: YES / 100? 1 OR 2 BAGS ? YES / NO? INFLUENT: YES / 100? 1 OR 2 BAGS ? YES / NO? INFLUENT: YES / 100? YES / NO?  ANY VISIBLE EMISSIONS FROM STACK?: YES / 100? VGAC TANK: 1 OR 2?	LTER ELEMENT	CHANGEOU	UT?	YES INO	シ	Any Leaks	7	YESTINO	<b>フ</b>	
(lead / lag?) (lead / lag?)  SVE PID MEASUREMENTS: (ppm) + Qualitative Olfactory Check (Odor? If yes, describe)  PROCESS ROOM: O Ab odo EFFLUENT: 4.0 Mod odo  INTERMEDIATE/MIDFLUENT: INFLUENT: (Shallow) 4.0 (Deep) 3.1 mod  GAS SAMPLES (1/2 Liter Tedlar Bags, Only 72-Hours Hold Time, 8260+ DEQ LIST): VALVES CLOSE  EFFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  ANY VISIBLE EMISSIONS FROM STACK?: YES / NO?  SVE CARBON CHANGEOUT?: YES / NO?  VGAC TANK: 1 OR 2?	e-HX Pressure:	0.5	<u>S</u>	Record p	si)			$\sim$		
(lead / lag?) (lead / lag?)  SVE PID MEASUREMENTS: (ppm) + Qualitative Olfactory Check (Odor? If yes, describe)  PROCESS ROOM: O 10 000 EFFLUENT: 4.0 MOOD odoc  INTERMEDIATE/MIDFLUENT: INFLUENT: (Shallow) 4.0 (Deep) 3.1 moo  GAS SAMPLES (1/2 Liter Tedlar Bags, Only 72-Hours Hold Time, 8260+ DEQ LIST): VALVES CLOSE  EFFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  INFLUENT: YES / NO? 1 OR 2 BAGS? YES NO?  ANY VISIBLE EMISSIONS FROM STACK?: YES / NO?  SVE CARBON CHANGEOUT?: YES / NO?  VGAC TANK: 1 OR 2?	VE VGAC PRESS	URE READ	INGS:	osi)	VGAC TA	NK 1:		VGAC TA	NK 2: -	
PROCESS ROOM: O Ab ode EFFLUENT: 4.0 Agod ode INTERMEDIATE/MIDFLUENT: INFLUENT: (Shallow) 4.0 (Deep) 3.1 more intermediate/MIDFLUENT: INFLUENT: (Shallow) 4.0 (Deep) 3.1 more intermediate/MIDFLUENT: YES/NO? 1 OR 2 BAGS? YES/NO? 1 OR 2 BAGS? YES/NO? 1 OR 2 BAGS? YES/NO? INFLUENT: YES/NO? 1 OR 2 BAGS? YES/NO?						* Annual Company of the Company of t	')		- Indiana and the state of the	
PROCESS ROOM: O No ode EFFLUENT: 4.0 Mood ode INTERMEDIATE/MIDFLUENT: INFLUENT: (Shallow) 4.0 (Deep) 3.1 more intermediate/MIDFLUENT: INFLUENT: (Shallow) 4.0 (Deep) 3.1 more intermediate/MIDFLUENT: YES/NO? 1 OR 2 BAGS? YES/NO? INFLUENT: YES/NO? 1 OR 2 BAGS? YES/NO? INFLUENT: YES/NO? TOR 2 BAGS? YES/NO?	VE PID MEASUR	EMENTS:	(maga)	+ Qualitat	lve Olfacto	ry Check (C	dor? If ye	s, describe	a)	
INFLUENT: (Shallow) 4-0 (Deep) 3.1 more and state (1/2 Liter Tediar Bags, Only 72-Hours Hold Time, 8260+ DEQ LIST):  EFFLUENT: YES / NO? 1 OR 2 BAGS? INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? INFLUENT: YES / NO? YES / NO? INFLUENT: YES / NO? YES / NO? INFLUENT:		6	0 11	- 2			11-			
INFLUENT: (Shallow) 4-0 (Deep) 5.1 60  SAS SAMPLES (1/2 Liter Tedlar Bags, Only 72-Hours Hold Time, 8260+ DEQ LIST):  EFFLUENT: INFLUENT: YES / NO? INTERMEDIATE/MIDFLUENT: INFLUENT: INFLUENT: YES / NO? YES	PROCESS ROC	M: (/*)	V no	000		_EFFLUEN	7.0	144	000	mod
EFFLUENT: YES / NO? 1 OR 2 BAGS ? YES / NO?	INTERMEDIATE	MIDFLUEN	VT:		INFLUEN	T: (Shallow)	4.0	(Deep	1 3.1	000
EFFLUENT: YES / NO? 1 OR 2 BAGS ? YES NO? INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS ? YES NO?	AS SAMPLES (1/	2 Liter Tedi	ar Bags, Or	ily 72-Ho	urs Hold Ti	me, 8260+ I	DEQ LIST):		VALVES O	LOSED?
INTERMEDIATE/MIDFLUENT: YES / NO? 1 OR 2 BAGS? YES / NO? INFLUENT: YES / NO?										
SVE CARBON CHANGEOUT?: YES / 10? VGAC TANK: 1 OR 2 ?	INT	ERMEDIATE	E/MIDFLUE	NT:	YES/NO	7)	1 OR 2 BA	GS?	(ESVI	10?
comments , notes: Reset connection collinar phone to XUL	Principal and constitution of the contract of	And the second s					NK:	1 OR 2 ?		
CONTRACTOR	OMMENTS / NOT	FS:	Report	Char	A:	Cell	Marco	)) <sub>0</sub> 0	X X	Lake
	CONTRACTOR OF STREET OF STREET									

# FORMER LA DARLING SITE - BRONSON, MICHIGAN

	R SPARGE	SYSTEM -	OPERATIO		ITORING L	4	1.	6500W
Technician	DW.			Weather:		V - SI	m	cover
Date: 1 •	17-7	1015		Temp:	-4	D		
SVE SYSTEM:	(N)	OFF	AS SYSTE	:M:		6N)	OFF	
AS PANEL HOURS:				AS HOURS	S SINCE LA	ST VISIT:		
AS PANEL STATUS	ACTIVE	INACTIVE		AS PANEL	ROW SPA	RGING:	Shall	ou
AS BLOWER DISCH	ARGE SYS	TEM PRESS	URE GAU	3E:	_	. PSI		
AS BLOWER OIL LE	VEL IN SIG	HT GLASS?		YES I I	00			
Row/Bank Current	tly Sparging	?: C	SHALLOW	OR INTER	RMEDIATE			
Well No.: AS1S	AS2S	AS3S	AS4S	AS5S	AS6S	AS7S	AS8S	AS9S
Pressure: 4/5	4.5	6.5	_5_	6	5	6	5.5	2.2
(psi) Flowrate: O	3.5	8.5	5	<u>ડ</u>	<u></u>	<u> 11</u>	7.5	_3_
Well No.: AS11	<u>AS2I</u>	AS3I	AS41	AS51	AS61	AS71	<u>AS81</u>	<u>AS91</u>
Pressure: 45	13	12	12.5	16	12	16	1/	13.5
(psi) Flowrate:	6.5		2	8	3.5	6.5	4.5	<u>_</u> D
Pressure Probes:		PP-1 (NW)	r in the	PP-2 (SW)		PP-3 (SE)		PP-4 (NE)
(Use Manameter) (in. wc., -/+ = vac or p	oress):	0-		0-		0		0
PID (ppm):		0.0		0.0		0.0		0.0
COMMENTS / NOTE	S:							